

APPENDIX C

ERP Functionality Comparison Analysis

APPENDIX C: ERP FUNCTIONALITY COMPARISON ANALYSIS

INTRODUCTION AND OBJECTIVE

The purpose of this document is to assess how well ERP vendors can meet the State's business requirements. In order to perform this assessment, the State's business requirements were documented and issued as a part of a request for information (RFI). ERP vendors were asked to address their ability to meet each requirement.

Business requirements were developed for the following functional areas:

- ◆ Financial Management
 - General Ledger / Budget Control
 - Accounts Payable / Travel
 - Accounts Receivable / Cash Receipts / Cash Management
 - Budget Development (including Performance-Based Budgeting)
 - Cost Accounting / Allocation
 - Project Management and Grant Accounting
- ◆ Purchasing
- ◆ Inventory
- ◆ Fleet Management
- ◆ Asset Management
- ◆ DOT Project and Materials Management
- ◆ Payroll
- ◆ Human Resources
 - Employee Self-Service
 - Personnel Administration
 - Position Control
 - Recruiting and Applicant Tracking
 - Training and Employee Development
 - Compensation
 - Timekeeping
 - Employee Leave Accounting
 - Benefits Administration (insurance only)
- ◆ Technical

REQUIREMENTS DEVELOPMENT

In preparation for the requirement sessions, STA consultants reviewed existing system documentation and policy and procedure manuals. Then, STA facilitated a series of work sessions with the State's subject matter experts (SMEs). A product of these sessions was the documentation of key State "As Is" business processes. Also, additional requirements were identified and added to the baseline requirements. The following diagram illustrates how the requirements were developed.

During the "To Be" requirement sessions, STA consultants and the State SMEs reviewed the baseline set of requirements and continued to identify new requirements. Each requirement was identified as being new functionality or existing in current administrative systems. In addition, each requirement was also prioritized as to its importance to the State. The definition of each requirement classification is shown below.

Existing or New

- E** Existing – The functionality currently exists in the system
- N** New – The functionality does not exist in the current system

Importance to the State

- M** Mandatory – The functionality must be in the ERP system
- C** Critical - The functionality is critical to business operations. If the functionality does not exist, the ERP system must have a workaround to avoid a negative impact on the work processes.
- D** Desired – This functionality is nice to have. However, if this functionality is not available work processes would not be negatively impacted.

Five ERP vendors responded to the RFI. The vendors that responded (in alphabetical order) were AMS, Lawson, Oracle, PeopleSoft, and SAP.

For each requirement, the ERP vendors could choose from one of the five responses presented in the table below.

RESPONSE	RESPONSE DEFINITION
S – Standard Functionality	The ERP software provides the requested functionality without screen, code, or design changes. The product can satisfy the specification " <u>out-of-the-box</u> " without any modification to the standard baseline software offering. Only use "S" if the software fully meets the requirement.
M – Modification Required	Screen, code, or design modifications must be made to the standard offering (ERP or Third party package) to satisfy the specified requirement. A brief explanation is required to support any proposed modification; explanations should be provided in the "Comments" section of the matrix.
C – Custom	The software (ERP or Third party package) supports the data elements

RESPONSE	RESPONSE DEFINITION
Report/Inquiry Required	necessary for the report/inquiry, but a custom report/inquiry would need to be developed to meet the requirement. A brief explanation is required to support any proposed modification; explanations should be provided in the “Comments” section of the matrix.
N – Cannot Meet Requirement	The desired feature or component is not available as standard functionality or through modification/enhancement. The requirement would most likely need to be met by a process workaround or by interfacing an existing legacy application.
T – Third Party	The desired feature or component is not available as standard functionality of the ERP system but is a standard feature of the third party solution. The third party software, which is fully integrated with the ERP system, provides the requested functionality without screen, code, or design changes. The proposed third party product can satisfy the specification <u>“out-of-the-box”</u> without any modification to the standard baseline software offering. Only use “T” if the software fully meets the requirement.

VENDOR RESPONSE SUMMARY

Following is a summary of each vendor’s response to the RFI.

VENDOR	% STANDARD	% MOD	% CUST	% NO	% THIRD PARTY	Totals
AMS	83	7	4	1	5	100
Lawson	58	11	5	0	27	100
Oracle	83	6	3	1	7	100
PeopleSoft	70	12	7	4	7	100
SAP	95	1	1	1	1	100
Average of all vendors	78	7	4	2	9	100

There was a wide disparity in the vendor responses to the Fleet Management and Department of Transportation Requirements. Excluding these modules (i.e., Department of Transportation requirements and Fleet Management requirements), the degree of fit is as follows:

VENDOR	% STANDARD	% MOD	% CUST	% NO	% THIRD PARTY	Totals
AMS	90	7	3	0	0	100
Lawson	63	11	5	0	21	100
Oracle	87	6	3	1	3	100
PeopleSoft	73	12	7	0	8	100
SAP	96	1	1	1	1	100
Average Degree of Fit, Excluding Fleet and TDOT	82	7	4	2	6	100

AVERAGE VENDOR RESPONSE BY MODULE

Following is a summary of the each vendor's percentage of "Standard" responses by module. More detailed information on the vendor's responses can be found in the appendices.

MODULE	AMS	LAWSON	ORACLE	PSFT	SAP	TOTALS
Accounts Payable	89	75	89	92	92	88
Application Services	83	48	77	39	98	69
Asset Management	81	81	89	70	94	83
Benefits Administration	93	83	77	68	99	84
Budget Development	98	38	88	87	90	80
Cash Management	82	43	90	73	95	77
Classification	99	89	84	75	100	89
Cost Acctg./Allocation	95	92	98	90	99	95
Employee Leave	100	81	91	73	100	74
Employee Self Service	76	66	76	70	95	77
Fleet Management	0	0	84	0	80	47
General Ledger	100	91	97	88	95	94
General Requirements	84	86	84	83	91	86
Inventory	94	0	95	91	100	76
Payroll	96	86	93	78	100	90
Personnel Administration	91	79	84	81	97	87
Position Control	99	85	99	90	100	95
Project Accounting	93	0	84	88	93	71
Purchasing	83	0	81	77	97	68
Revenue	78	81	67	45	72	68
TDOT	9	0	0	0	98	21
Technical	89	83	93	92	94	90
Timekeeping and Labor	98	83	99	74	100	91
Training	77	11	84	48	100	64
All Vendor Average	83	58	83	70	95	78
Average w/o TDOT & Fleet	90	63	87	76	96	82

Please see Appendix F: Selected Change Matrix Reports for additional information and analysis regarding the ERP vendor's degree of fit for the State of Tennessee.

Appendix F contains the following reports:

- ◆ ERP vendor responses regarding the requirements by the classifications of % Standard, % Modification, % Custom, % Cannot Meet, % Third Party, and % No Response (“Vendor Response Code Percentages”).
- ◆ ERP vendor responses regarding the requirements by the classifications of Critical, Mandatory, and Desired (“Requirement Percentages By Critical, Mandatory, Desired”).
- ◆ ERP vendor responses regarding the requirements by the classifications of Existing and New (“Percentage of Requirements By Existing and New”).